WORKSHEET W-4 WATER RIGHT/PERMIT/ BMP Farm Unit NO. DWR WELL REGISTRATION NO. LOCATION Head or Stage Discharge Number of Seconds 160 10 6 (Gals/Min) for 10 Revs Q Q Q Sec Twn Rng TYPE OF MEASURING DEVICE MAKE/MODEL A MINIMUM OF TWO MEASURE -**TOTALS** 2 MENTS IS REQUIRED INSTALLATION OR OVERHAUL DATE SIZE 8 AVERAGE SECONDS **AVERAGE** DISCHARGE FACTOR B FACTOR C POWER CO. NAME ACCOUNT NO. ELECTRIC METER NO. 3 DIVIDER = 19550 X $\frac{A \times 10}{B \times C}$ = 10 ENERGY CONSUMPTION Kw hrs Kh 5 FACTOR A = = Kr x Kh 11 WATER WITHDRAWN = ACRE FEET DWR WELL REGISTRATION NO. LOCATION Date of Head or Stage Discharge Number of Seconds 10 160 40 6 (Specify Units) for 10 Revs Q Q Q Rng TYPE OF MEASURING DEVICE MAKE/MODEL A MINIMUM OF TWO MEASURE -**TOTALS** 2 MENTS IS REQUIRED SIZE INSTALLATION OR OVERHAUL DATE **AVERAGE AVERAGE** DISCHARGE SECONDS FACTOR B FACTOR C POWER CO. NAME ACCOUNT NO. ELECTRIC METER NO. 3 DIVIDER = 19550 X $\frac{A \times 10}{B \times C}$ = 10 ENERGY CONSUMPTION Kw hrs 5 BOX 10 FACTOR A = = Kr x Kh WATER WITHDRAWN = ACRE FEET Date of Head or Stage Discharge Number of Seconds DWR WELL REGISTRATION NO. LOCATION 10 40 160 6 (Specify Units) (Gals/Min) for 10 Revs Q Q Q Rng Twn TYPE OF MEASURING DEVICE MAKE/MODEL A MINIMUM OF TWO MEASURE -**TOTALS** 2 MENTS IS REQUIRED SIZE INSTALLATION OR OVERHAUL DATE 8 AVERAGE **AVERAGE** DISCHARGE SECONDS FACTOR B FACTOR C POWER CO. NAME ACCOUNT NO. ELECTRIC METER NO. 3 DIVIDER = 19550 X $\frac{A \times 10}{B \times C}$ = **ENERGY** 10 CONSUMPTION Kw hrs BOX 10 5 Kh FACTOR A = = Kr x Kh 11 WATER WITHDRAWN = ACRE FEET Date of Head or Stage Discharge Number of Seconds DWR WELL REGISTRATION NO. LOCATION 10 40 160 6 Measurement (Specify Units) (Gals/Min) for 10 Revs Q Q Q Rng Sec Twn TYPE OF MEASURING DEVICE MAKE/MODEL A MINIMUM OF TWO MEASURE -**TOTALS** 2 MENTS IS REQUIRED NSTALLATION OR OVERHAUL DATE SIZE 8 AVERAGE AVERAGE 7 DISCHARGE SECONDS FACTOR C

ELECTRIC METER NO.

= Kr x Kh

DIVIDER = 19550 X $\frac{A \times 10}{B \times C}$ =

WATER WITHDRAWN =

10 ENERGY

CONSUMPTION

ACRE FEET

ACCOUNT NO

5 FACTOR A =

POWER CO. NAME

Kh

3

WORKSHEET W-4

Note: 1) This method cannot be used when energy meter serves other uses.

2) If you are using one of the new digital power meters, call your local AMA office for further instructions.

OPEN CHANNEL FLOW WITH PUMPAGE CALCULATED USING ELECTRICAL ENERGY RECORDS

ELECTRICAL ENERGY RECORDS			
INSTRUCTIONS			
Note	e: If any information pre-printed on this form is incorrect, please make the needed corrections. For that information not already preprinted on this form, please follow the directions below.		
1.	Enter DWR well registration number and location in 1.		
2.	If the meter has been changed during the reporting year, enter type, make, model and size of measuring device used to measure discharge in 2. If the device is permanent, enter date installed or last overhauled.		
3.	Enter power company name, account number and meter number in 3.		
4.	Enter Kr and Kh from electric meter in 4. The Kr is the multiplier factor indicated on the power bill.		
	For some pump motors, which are 200 amps or less, the electric meter may be "self-contained" and the Kr is not used in computing Factor A (Kh=Factor A). Contact the metering department of your electric company to determine if your electric meter is self-contained, if you are not sure. The Kh is the disk constant and is located on the faceplate of the electric meter.		
5.	Compute Factor A by multiplying Kr by Kh. Enter in 5.		
6.	Enter date of measurement, head or stage recording* of the open channel flow, pump discharge, and the number of seconds it takes to turn the electric meter disk 10 revolutions, for each measurement taken in A minimum of two measurements are required. These measurements should be taken during the spring and in late summer if possible. Measuring more often produces more accurate results. It is desirable to operate the pump at least 24 hours before measuring the discharge.		
	* For submerged conditions, provide the values obtained for both upstream and downstream heads. If the Clausen Weir Rule is used, provide height of orifice (Ho) and A scale and B Scale readings.		
7.	Add the values in the pump discharge column and divide by the number of entries to obtain the average discharge which is designated as Factor B. Enter in 7.		
8.	Repeat the same procedure for the number of seconds column to obtain the average seconds which is designated as Factor C. Enter in 8.		
9.	Enter Factor A, Factor B, and Factor C in the formula provided. Complete the calculation as shown to obtain the divider. Enter in 9.		
10.	Enter the total energy consumption. This amount may be obtained from your electric energy bills. If you obtain this information by reading your meter, be sure to adjust the reading by the "multiplier" factor on your bill. Enter in 10.		
11.	Divide the total energy consumption entered in 10 by the value computed in 9 to obtain the total water withdrawn by the well. Enter in 11.		
ENT	TER THE FOLLOWING ON SCHEDULE A		
wo	PRKSHEET W-4 SCHEDULE A		
В	ox 1 DWR well registration number & location in column 2 if not already shown.		

NORKSHEET W	-4	SCHEDULE A
Box 1 -		DWR well registration number & location in column 2 if not already shown.
Box 3 -		Power company name, account number, and meter number in column 3.
Box 8 -		Average discharge in column 7.
Box 9 -		Divider in column 8.
Box 10 -		Energy consumption in column 6.
Box 11 -		Water withdrawn in column 9.

NOTE: THIS WORKSHEET MUST BE SUBMITTED WITH SCHEDULE A.